1. Find the prime factorization of 1240 using three different methods.

★ Division method:

$$\begin{array}{r|l} 2 & 1240 \\ 2 & 620 \\ 2 & 310 \\ 5 & 155 \\ & 31 \end{array}$$

★ multipication method

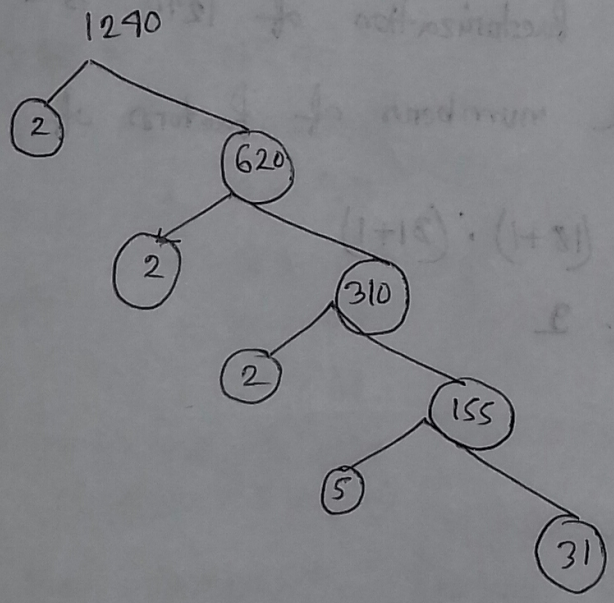
$1240 = 2 \times 620$

$= 2 \times 2 \times 310$

$= 2^2 \times 2 \times 155$

$= 2^3 \times 5 \times 31$

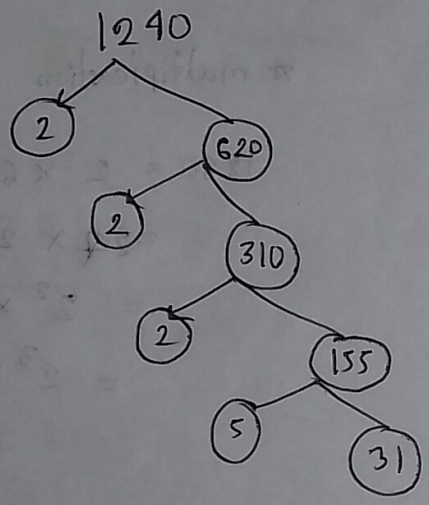
★ Tree Diagram



Therefore, the prime factorization of 1240 is

$= 2^3 \cdot 5 \cdot 31$

2. Find the all factors of 1240 using tree diagram



∴ The prime factorization of 1240 is = $2^3 \cdot 5 \cdot 31$

So, the total numbers of factors of 1240 is

$= (3+1) \cdot (1+1) \cdot (1+1)$

$= 4 \cdot 2 \cdot 2$

$= 16$

3. Find all the prime factors of 1240 ?

$$
\begin{array}{r|l}
2 & 1240 \\
\hline
2 & 620 \\
\hline
2 & 310 \\
\hline
5 & 155 \\
\hline
 & 31
\end{array}
$$

∴ All the prime factors of 1240 are = 2, ~~2~~, ~~2~~, 5, 31

4. Find the all composite factors of 1240 ?

$$
\begin{aligned}
1240 &= 1 \times 1240 \\
&= 2 \times 620 \\
&= 4 \times 310 \\
&= 8 \times 155 \\
&= 10 \times 124 \\
&= 20 \times 62 \\
&= 31 \times 40 \\
&= 5 \times 248
\end{aligned}
$$

∴ All the composite factors of 1240 are

~~1~~, ~~2~~, 4, 8, 10, 20, ~~31~~, 40, 62, 124,
155, 310, 620, 1240, ~~5~~, 248